

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims:

1-34. (Canceled)

35. (New) A storage system to be coupled to an IP network, said storage system comprising:

a physical input/output port to be coupled to the IP network;

a control unit coupled to the physical input/output port; and

a plurality of disk drives coupled to the control unit,

the physical input/output port being assigned with a first port number for receiving a block I/O request via the IP network and a second port number for receiving a file I/O request via the IP network,

wherein the plurality of disk drives are configured into a plurality of volumes, of which a first volume is allocated to store data related to the block I/O request and a second volume is allocated to store data related to the file I/O request,

wherein the block I/O request includes the first port number and the file I/O request includes the second port number,

when an I/O request including the first port number is received, the control unit performs a first operation for storing data in the first volume,

when an I/O request including the second port number is received, the control unit performs a second operation for storing data in the second volume.

36. (New) A storage system according to claim 35,
wherein the block I/O request has an IP packet that includes the first port number and first information including an address in the first volume.

37. (New) A storage system according to claim 35,
wherein the file I/O request has an IP packet that includes the second port number and second information including file data.

38. (New) A storage system according to claim 35,
wherein the block I/O request has TCP packet in which the first port number is included.

39. (New) A storage system according to claim 36,
wherein the IP packet encapsulates a TCP packet in which the first port number is included.

40. (New) A storage system according to claim 35,
wherein the first volume and the second volume are concurrently allocated.

41. (New) A storage system according to claim 35,
wherein the control unit maps relationships between address of the each
volume and physical addresses of the disk drive to be stored data.

42. (New) A storage system coupled to an IP network, the storage system
comprising:

a physical port coupled to the IP network;
a control unit coupled to the physical port; and
a plurality of disk drives coupled to the control unit,
wherein first and second port numbers are assigned to the physical port, the
first port number for receiving a block I/O request from a first processor via the IP
network and the second port for receiving a file I/O request from a second processor
via the IP network,
wherein the plurality of disk drives are configured into a plurality of volumes, of
which a first volume is allocated to store data related to the block I/O request and a
second volume is allocated to store data related to the file I/O request, and
wherein the block I/O request includes the first port number and a first
information and the file I/O request includes the second port number and a second
information,

when an I/O request including the first port number is received from the first processor, wherein, the control unit performs a first operation for storing data in the first volume,

when an I/O request including the second port number is received from the second processor, the control unit performs a second operation for storing data in the second volume.

43. (New) A storage system according to claim 42,
wherein the block I/O request has an IP packet that includes the first port number and first information including an address in the first volume.

44. (New) A storage system according to claim 42,
wherein the file I/O request has an IP packet that includes the second port number and second information including file data.

45. A storage system according to claim 42,
wherein the block I/O request has TCP packet in which the first port number is included.

46. (New) A storage system according to claim 43,

wherein the IP packet encapsulates a TCP packet in which the first port number is included.

47. (New) A storage system according to claim 42,
wherein the first volume and the second volume are concurrently allocated.

48. (New) A storage system according to claim 42,
wherein the control unit maps relationships between address of the each volume and physical location of the disk drive.

49. (New) A storage system to be coupled to a network, said storage system comprising:

a physical input/output port to be coupled to the network;
a control unit coupled to the physical input/output port; and
a plurality of disk drives coupled to the control unit,
the physical input/output port being operable according to a first port number for receiving a block I/O request through the network and a second port number for receiving a file I/O request via the network,
wherein the plurality of disk drives are configured into a plurality of volumes, of which a first volume is allocated to store data related to the block I/O request and a second volume is allocated to store data related to the file I/O request,

wherein the block I/O request includes the first port number and the file I/O request includes the second port number,

when an I/O request including the first port number is received, the control unit performs a first operation for storing data in the first volume,

when an I/O request including the second port number is received, the control unit performs a second operation for storing data in the second volume.

50. (New) A storage system according to claim 49,

wherein the block I/O request has an IP packet that includes the first port number and first information including an address in the first volume.

51. (New) A storage system according to claim 49,

wherein the file I/O request has an IP packet that includes the second port number and second information including file data.

52. (New) A storage system according to claim 49,

wherein the block I/O request has TCP packet in which the first port number is included.

53. (New) A storage system according to claim 50,

wherein the IP packet encapsulates a TCP packet in which the first port number is included.

54. A storage system according to claim 49,
wherein the first volume and the second volume are concurrently allocated.

55. (New) A storage system according to claim 49,
wherein the control unit maps relationship between address of the each volume and addresses of the disk drive.

56. (New) A storage system to be coupled to an IP network, said storage system comprising:

a physical port to be coupled to the IP network;
a control unit coupled to the physical port; and
a plurality of disk drives to be coupled to the control unit;
wherein first and second port numbers are assigned to the physical port, the first port number for receiving a first IP packet via the IP network and the second port number for receiving a second IP packet via the IP network,
wherein the plurality of disk drives are configured into a plurality of volumes, of which a first volume is allocated to store data related to the first IP packet and a second volume is allocated to store data related to the second IP packet,

wherein the first IP packet includes the first port number and block data, and the second IP packet includes the second port number and file data,

when the first IP packet is received, the control unit performs a first operation for storing the block data in the first volume,

when the second IP packet is received, the control unit performs a second operation for storing the file data in the second volume.

57. (New) A storage system according to claim 56,

wherein the first IP packet has TCP packet in which the first port number is included.

58. (New) A storage system according to claim 56,

wherein the second IP packet encapsulates a TCP packet in which the second port number is included.

59. (New) A storage system according to claim 56,

wherein the control unit transforms the file data into block data for storing in the second volume.